

AMENDMENTS TO THE ABSTRACT:

Please amend the Abstract as follows:

~~The present invention provides a technique for synchronisation between pipelines~~ Pipelines
~~are synchronised~~ in a data processing apparatus ~~that~~. ~~The data processing apparatus comprises~~
~~includes~~ a main processor ~~operable to execute for executing~~ a sequence of instructions, ~~the main~~
~~processor comprising~~ a first pipeline having a first plurality of pipeline stages, and a coprocessor
~~operable to execute for executing~~ coprocessor instructions in ~~said that~~ sequence of instructions. The
coprocessor comprises a second pipeline having a second plurality of pipeline stages, ~~and each~~
Each coprocessor instruction is ~~arranged to be routed through both the first and second pipeline and~~
~~the second pipeline~~ pipelines. ~~Furthermore, at least one~~ A synchronising queue is ~~provided coupling~~
couples a predetermined pipeline stage in one of the pipelines with a partner pipeline stage in the
other of the pipelines. ~~the~~ The predetermined pipeline stage ~~being operable to cause causes~~ a token
to be placed in the synchronising queue when processing a coprocessor instruction, ~~and the~~ The
partner pipeline stage ~~being operable to process processes~~ that coprocessor instruction upon receipt
of the token from the synchronising queue. ~~By this approach, the first and second pipelines are~~
~~synchronised between the predetermined pipeline stage and the partner pipeline stage, and hence~~
This ensures that the pipelines are correctly synchronised for crucial transfers of information
without requiring ~~that strict synchronisation at all stages is necessary.~~